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Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=10; day=24; hr=12; min=8; sec=54; ms=737;]

Validated By CRFValidator v 1.0.3

Application No: 09042460 Version No: 1.0

Input Set:

Output Set:

Started: 2008-09-26 09:39:59.198

Finished: 2008-09-26 09:40:02.068

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 870 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 101

Actual SeqID Count: 101

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (ii) TITLE OF INVENTION: Mouse Telomerase Reverse Transcriptase
- (iii) NUMBER OF SEQUENCES: 101
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 - (B) STREET: Two Embarcadero Center, Eighth Floor
 - (C) CITY: San Francisco
 - (D) STATE: California
 - (E) COUNTRY: USA
 - (F) ZIP: 94111-3834
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09042460
 - (B) FILING DATE: 1998-03-16
- (vii) PRIOR APPLICATION DATA:
 - (B) FILING DATE: 16-MAR-1998
 - (C) CLASSIFICATION: 536
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/724,643
 - (B) FILING DATE: 01-OCT-1996
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/844,419
 - (B) FILING DATE: 18-APR-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/846,017
 - (B) FILING DATE: 25-APR-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/851,843
 - (B) FILING DATE: 06-MAY-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/854,050

- (B) FILING DATE: 09-MAY-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/911,312
 - (B) FILING DATE: 14-AUG-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/912,951
 - (B) FILING DATE: 14-AUG-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/915,503
 - (B) FILING DATE: 14-AUG-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: WO PCT/US97/17618
 - (B) FILING DATE: 01-OCT-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: WO PCT/US97/17885
 - (B) FILING DATE: 01-OCT-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/974,549
 - (B) FILING DATE: 19-NOV-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/974,584
 - (B) FILING DATE: 19-NOV-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/979,742
 - (B) FILING DATE: 26-NOV-1997
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Einhorn, Gregory P.
 - (B) REGISTRATION NUMBER: 38,440
 - (C) REFERENCE/DOCKET NUMBER: 015389-003110US
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (415) 576-0200
 - (B) TELEFAX: (415) 576-0300
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3496 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (ix) FEATURE:

(A) NAME/KEY: -	
(B) LOCATION: 13496	
(D) OTHER INFORMATION: /note= "mouse telomerase reverse	
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(iv) FEATURE.	
(ix) FEATURE:	
(A) NAME/KEY: misc_feature(B) LOCATION: 103435	
(D) OTHER INFORMATION: /note= "mouse telomerase reverse	
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(ix) FEATURE:	
(A) NAME/KEY: CDS	
(B) LOCATION: 393404	
(D) OTHER INFORMATION: /product= "mouse telomerase reverse	
transcriptase (mTRT)"	
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
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Met Thr Arg Ala Pro	JJ
1 5	
CGT TGC CCC GCG GTG CGC TCT CTG CTG CGC AGC CGA TAC CGG GAG GTG	101
Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser Arg Tyr Arg Glu Val	
10 15 20	
TGG CCG CTG GCA ACC TTT GTG CGG CGC CTG GGG CCC GAG GGC AGG CGG	149
Trp Pro Leu Ala Thr Phe Val Arg Arg Leu Gly Pro Glu Gly Arg Arg	
25 30 35	
OTT CTC (1) 000 000 000 000 110 170 710 000 177 777 7	1.07
	197
Leu Val Gln Pro Gly Asp Pro Lys Ile Tyr Arg Thr Leu Val Ala Gln 40 50	
±0 ±0	
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Cys Leu Val Cys Met His Trp Gly Ser Gln Pro Pro Ala Asp Leu	
55 60 65	
TCC TTC CAC CAG GTG TCA TCC CTG AAA GAG CTG GTG GCC AGG GTT GTG	293
Ser Phe His Gln Val Ser Ser Leu Lys Glu Leu Val Ala Arg Val Val	
70 75 80 85	
	341
Gln Arg Leu Cys Glu Arg Asn Glu Arg Asn Val Leu Ala Phe Gly Phe	
90 95 100	
GAG CTG CTT AAC GAG GCC AGA GGC GGG CCT CCC ATG GCC TTC ACT AGT	389
Glu Leu Leu Asn Glu Ala Arg Gly Gly Pro Pro Met Ala Phe Thr Ser	JU 9
105 110 115	
AGC GTG CGT AGC TAC TTG CCC AAC ACT GTT ATT GAG ACC CTG CGT GTC	437
Ser Val Arg Ser Tyr Leu Pro Asn Thr Val Ile Glu Thr Leu Arg Val	
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AGT GGT GCA TGG ATG CTA CTG TTG AGC CGA GTG GGC GAC GAC CTG CTG	485

(A) NAME/KEY: -

Ser	Gly 135	Ala	Trp	Met	Leu	Leu 140	Leu	Ser	Arg	Val	Gly 145	Asp	Asp	Leu	Leu	
					CAC His 155											533
					TGT Cys											581
					TCT Ser											629
					ACT Thr											677
					GCA Ala											725
					AGT Ser 235											773
					CCT Pro											821
					CCA Pro											869
					CCT Pro											917
					AGT Ser											965
					CTG Leu 315											1013
					GAG Glu											1061
					AAC Asn											1109
					AGG Arg											1157

360 365 370

				AGG Arg				1205
				CAA Gln				1253
				AGG Arg 415				1301
				TTG Leu				1349
				AGT Ser				1397
				GTG Val				1445
				AAG Lys				1493
				CTG Leu 495				1541
				CGC Arg				1589
				AGG Arg				1637
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				CAG Gln				1733
				CAG Gln 575				1781
				CTG Leu				1829

			TGG Trp						1877
			GGC Gly						1925
			TTG Leu 635						1973
			CTC Leu						2021
			GGG Gly						2069
			TTT Phe						2117
			GTT Val						2165
			CTG Leu 715						2213
			TGT Cys						2261
			CAC His						2309
			TAC Tyr						2357
		_	CTG Leu						2405
			AGC Ser 795						2453

											CTG Leu					2549
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											TTG Leu 865					2645
											GTC Val					2693
Glu	Tyr	Gly	Сув	Met 890	Ile	Asn	Leu	Gln	Lys 895	Thr	GTG Val	Val	Asn	Phe 900	Pro	2741
Val	Glu	Pro	Gly 905	Thr	Leu	Gly	Gly	Ala 910	Ala	Pro	TAC Tyr	Gln	Leu 915	Pro	Ala	2789
											GAC Asp					2837
											ACC Thr 945					2885
											AAG Lys					2933
											GGT Gly					2981
											AAT Asn					3029
			Gln					His			GTG Val		Gln			3077
		Gln					Asn				TTT Phe 1025	Leu				3125
	Ser					Cys					AAG Lys)					3173
GGA	ATG	ACA	CTA	AAG	GCC	TCT	GGC	TCC	TTT	CCT	CCT	GAA	GCC	GCA	CAT	3221

Gly Met Thr Leu Lys Ala Ser Gly Ser Phe Pro Pro Glu Ala Ala His 1050 1055 1060												
TGG CTC TGC TAC CAG GCC TTC CTG CTC AAG CTG GCT GCT CAT TCT GTC Trp Leu Cys Tyr Gln Ala Phe Leu Leu Lys Leu Ala Ala His Ser Val 1065 1070 1075	3269											
ATC TAC AAA TGT CTC CTG GGA CCT CTG AGG ACA GCC CAA AAA CTG CTG Ile Tyr Lys Cys Leu Leu Gly Pro Leu Arg Thr Ala Gln Lys Leu Leu 1080 1085 1090	3317											
TGC CGG AAG CTC CCA GAG GCG ACA ATG ACC ATC CTT AAA GCT GCA GCT Cys Arg Lys Leu Pro Glu Ala Thr Met Thr Ile Leu Lys Ala Ala Ala 1095 1100 1105	3365											
GAC CCA GCC CTA AGC ACA GAC TTT CAG ACC ATT TTG GAC TAACCCTGTC Asp Pro Ala Leu Ser Thr Asp Phe Gln Thr Ile Leu Asp 1110 1115 1120	3414											
TCCTTCCGCT AGATGAACAT GAAGGGCGAA TTCCAGCACA CTGGCGGCCG TTACTAGTGG	3474											
ATCCGAGCTC GGTACCAAGC TT	3496											
(2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1122 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Met Thr Arg Ala Pro Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Met Thr Arg Ala Pro Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser 1 5 10 15 Arg Tyr Arg Glu Val Trp Pro Leu Ala Thr Phe Val Arg Arg Leu Gly												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Met Thr Arg Ala Pro Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser 1 5 10 15 Arg Tyr Arg Glu Val Trp Pro Leu Ala Thr Phe Val Arg Arg Leu Gly 20 25 30 Pro Glu Gly Arg Arg Leu Val Gln Pro Gly Asp Pro Lys Ile Tyr Arg												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Met Thr Arg Ala Pro Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser 1 5 10 15 Arg Tyr Arg Glu Val Trp Pro Leu Ala Thr Phe Val Arg Arg Leu Gly 20 25 30 Pro Glu Gly Arg Arg Leu Val Gln Pro Gly Asp Pro Lys Ile Tyr Arg 35 40 45 Thr Leu Val Ala Gln Cys Leu Val Cys Met His Trp Gly Ser Gln Pro												
(xi) SEQUENCE DESCRIPTION: SEQ ID No:2: Met Thr Arg Ala Pro Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser 1												
(xi) SEQUENCE DESCRIPTION: SEQ ID No:2: Met Thr Arg Ala Pro Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser 1 5 10 15 Arg Tyr Arg Glu Val Trp Pro Leu Ala Thr Phe Val Arg Arg Leu Gly 20 25 30 Pro Glu Gly Arg Arg Leu Val Gln Pro Gly Asp Pro Lys Ile Tyr Arg 45 Thr Leu Val Ala Gln Cys Leu Val Cys Met His Trp Gly Ser Gln Pro 50 55 60 Pro Pro Ala Asp Leu Ser Phe His Gln Val Ser Ser Leu Lys Glu Leu 65 70 75 80 Val Ala Arg Val Val Gln Arg Leu Cys Glu Arg Asn Glu Arg Asn Val												

115 120 125

Glu	Thr 130	Leu	Arg	Val	Ser	Gly 135	Ala	Trp	Met	Leu	Leu 140	Leu	Ser	Arg	Val
Gly 145	Asp	Asp	Leu	Leu	Val 150	Tyr	Leu	Leu	Ala	His 155	Суз	Ala	Leu	Tyr	Leu 160
Leu	Val	Pro	Pro	Ser 165	Cys	Ala	Tyr	Gln	Val 170	Cys	Gly	Ser	Pro	Leu 175	Tyr
Gln	Ile	Суз	Ala 180	Thr	Thr	Asp	Ile	Trp 185	Pro	Ser	Val	Ser	Ala 190	Ser	Tyr
Arg	Pro	Thr 195	Arg	Pro	Val	Gly	Arg 200	Asn	Phe	Thr	Asn	Leu 205	Arg	Phe	Leu
Gln	Gln 210	Ile	Lys	Ser	Ser	Ser 215	Arg	Gln	Glu	Ala	Pro 220	Lys	Pro	Leu	Ala
Leu 225	Pro	Ser	Arg	Gly	Thr 230	Lys	Arg	His	Leu	Ser 235	Leu	Thr	Ser	Thr	Ser 240

Val Pro Ser Ala Lys Lys Ala Arg Cys Tyr Pro Val Pro Arg